	Circuits		4	Analysing circuits
		( )	Recall	I rules of circuit analysis, including resistor combinations
	Learning objectiv		Apply	rules to solve multi-resistor circuits

Apply rules to solve circuits with multiple sources of emf

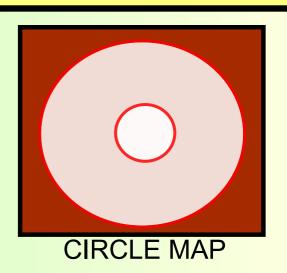
**STARTER:** Use the mark scheme to mark your homework

es

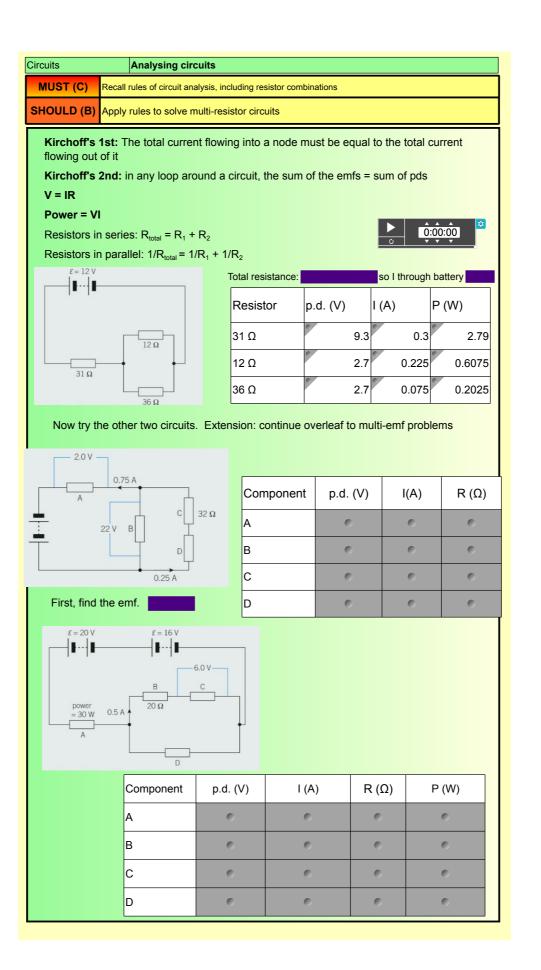
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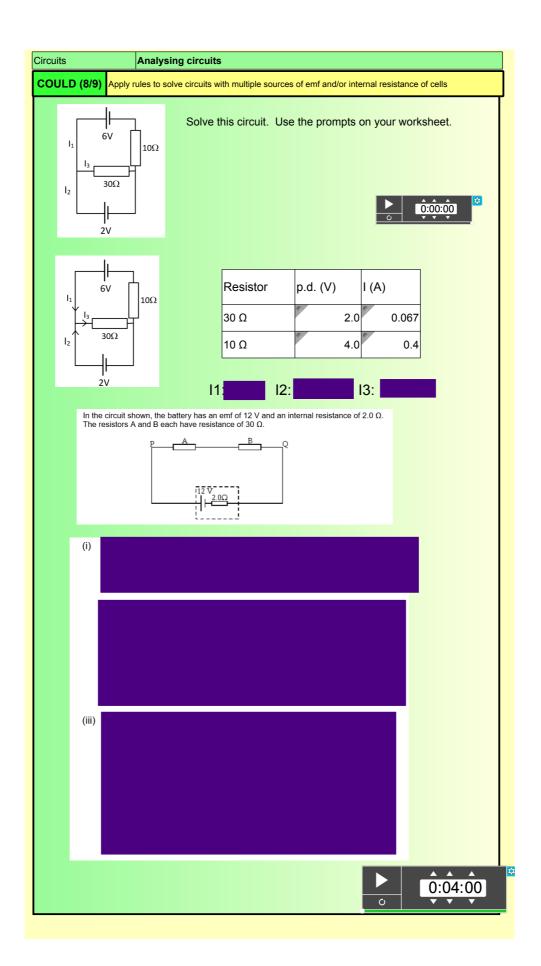
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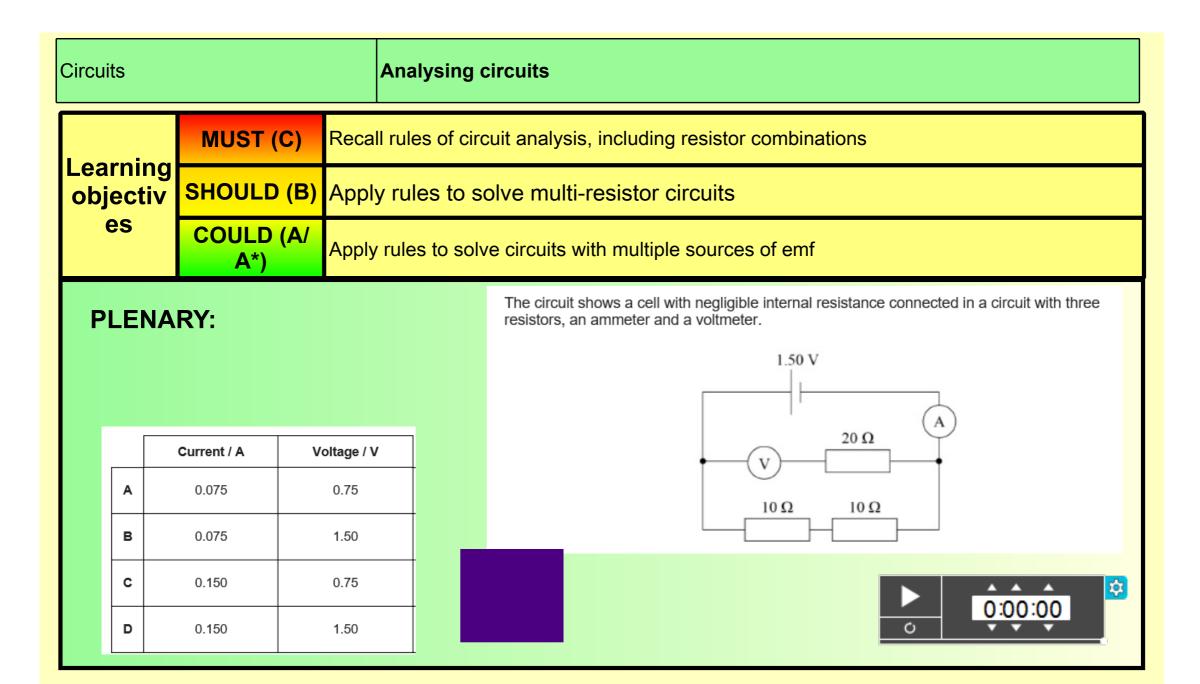
**Extension:** How many rules have we covered that you could use in solving circuit problems (e.g. finding unknown resistances, currents...)











This question proved a challenge (28.3% correct); the most common incorrect answer selected was distractor C. These students reasoned that the pd must be divided between the voltmeter and the 20  $\Omega$  resistor in a 1:1 ratio despite the voltmeter having an infinite resistance. Similarly, they were unaware that the total resistance in the circuit was 20  $\Omega$  rather than 10  $\Omega$ .